

基本信息

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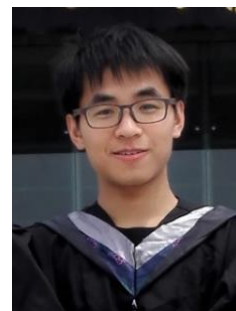
GitHub: <https://github.com/cleardusk> (5,300+ ★, 620+ Followers)

主页: <https://guojianzhu.com> | Google Scholar

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研究方向: Face Analysis: Face Recognition, 3D Face, Anti-Spoofing, Attribute.

Learning methods: Meta-Learning and Deep Learning.



教育背景

2016.09-2021.06 | 博士 | 导师: **李子青 (Stan Z. Li)**、雷震 | 中科院自动化研究所, 模式识别国家重点实验室

2012.09-2016.06 | 学士学位 | 东南大学 交通学院 地理信息系统

■ 专业排名 2/28, 2015.7 夏令营保研进入自动化所模式识别实验室

论文发表

- [1] **Jianzhu Guo**, Xiangyu Zhu, Zhen Lei, Stan Z. Li, "Decomposed Meta Batch Normalization for Fast Domain Adaptation in Face Recognition", *TIFS (SCI-I, CCF-A)*, 2021
- [2] **Jianzhu Guo**, Xiangyu Zhu, Chenxu Zhao, Dong Cao, Zhen Lei, Stan Z. Li, "Learning Meta Face Recognition in Unseen Domains", *CVPR (Oral, acceptance rate 5%)*, 2020
- [3] **Jianzhu Guo**, Xiangyu Zhu, Yang Yang, Fan Yang, Zhen Lei, Stan Z. Li, "Towards Fast, Accurate and Stable 3D Dense Face Alignment", *ECCV*, 2020
- [4] Dong Cao, Xiangyu Zhu, Xingyu Huang, **Jianzhu Guo**, Zhen Lei, "Domain Balancing: Face Recognition on Long-Tailed Domains", *CVPR*, 2020
- [5] Xiangyu Zhu, Fan Yang, Di Huang, Chang Yu, Hao Wang, **Jianzhu Guo**, Zhen Lei, Stan Z. Li, "Beyond 3DMM Space: Fine-grained 3D Face Reconstruction", *ECCV*, 2020
- [6] Xiaqing Xu, Qiang Meng, Yunxiao Qin, **Jianzhu Guo**, Chenxu Zhao, Feng Zhou, Zhen Lei, "Searching for Alignment in Face Recognition", *AAAI*, 2021
- [7] **Jianzhu Guo**, Xiangyu Zhu, Jinchuan Xiao, Zhen Lei, Genxun Wan, Stan Z. Li, "Improving Face Anti-Spoofing by 3D Virtual Synthesis", *ICB (Oral, acceptance rate 11%)*, 2019
- [8] Jinchuan Xiao, Yinhang Tang, **Jianzhu Guo**, Yang Yang, Xiangyu Zhu, Zhen Lei, Stan Z. Li, "3DMA: A Multi-modality 3D Mask Face Anti-spoofing Database", *IEEE AVSS*, 2019
- [9] **Jianzhu Guo**, Xiangyu Zhu, Zhen Lei, Stan Z. Li, "Face Synthesis for Eyeglass-Robust Face Recognition", *CCBR*, 2018 (<https://github.com/cleardusk/MeGlass>, 280+★)
- [10] **Jianzhu Guo**, Zhen Lei, Jun Wan et al, "Dominant and Complementary Emotion Recognition From Still Images of Faces", *IEEE Access*, 2018
- [11] **Jianzhu Guo**, Shuai Zhou, Jinlin Wu, Jun Wan, Xiangyu Zhu, Zhen Lei, Stan Z. Li, "Multi-modality Network with Visual and Geometrical Information for Micro Emotion Recognition", *FG*, 2017
- [12] Zelin Zang, Siyuan Li, Di Wu, **Jianzhu Guo**, Yongjie Xu, Stan Z. Li, "Deep Manifold Attributed Graph Embedding with Graph Geodesic Similarity", Under Review (*WACV*), 2021
- [13] Jun Xia, Cheng Tan, **Jianzhu Guo**, Lirong Wu, Yongjie Xu, Stan Z. Li, "OT-Cleaner: Refurbishing Unclean Labels with Optimal Transport", Under Review (*WACV*), 2021
- [14] Zicheng Liu, Siyuan Li, Di Wu, Zhiyuan Chen, Lirong Wu, **Jianzhu Guo**[†], Stan Z. Li, "AutoMix: Unveiling the Power of Mixup", Under Review, 2021

项目&竞赛&经历

- ◆ 2018-至今 3D人脸 (稠密点回归), 独立完成人
 - **3DDFA**: 实时 3D 人脸稠密点回归 → <https://github.com/cleardusk/3DDFA>, 影响力: **3.1K ★, 600 Forks**, 新智元报道, twitter of PyTorch;
 - **3DDFA_V2**: 3DDFA 拓展工作, 被 ECCV-20 接收 → https://github.com/cleardusk/3DDFA_V2, 影响力: **1.8K ★, 280+ Forks**, 量子位报道, twitter;
 - 2019: 近红外场景大姿态人脸 3D 稠密点回归
- ◆ 2016-2020 人脸识别 (* 独立完成人)
 - 2016 人脸修复*: 设计了基于分割、回归二步伐的策略去除证件照网纹, 辅助人脸识别, 性能提升 10 个点以上
 - 2017-2018 人证识别: 千万人级别的人证识别, 单模型百万分之一误识率下识别率为 93%, **千万分之一为 85%**
 - 2017-2018 异质人脸识别*: 可见光-近红外异质人脸识别在学术界取得最好的性能, 实际场景**百万分之一超过 90%**
 - 2018 网纹人脸识别*: 实际场景的百万人级别的网纹人证识别, **百万分之一超过 85%**
 - 2019 表情识别*: 监控场景人脸表情识别, Top1 准确率~70%
 - 2020 人证识别*: 口罩遮挡人证识别, 十万分之一误识率下准确率提升 30 个点
- ◆ 竞赛
 - 2017 华为软件挑战赛精英赛: 京津东北区域赛**决赛二等奖** (排位: 5 / 64)
 - 2017 人脸分析: FG2017 **国际人脸微表情识别比赛冠军**, 比第二名准确率高 5 个百分点 (第一作者)
- ◆ 专利
 - 基于元学习的域自适应人脸识别 202011517834.1 (pending)
- ◆ 经历
 - 2020.10-2021.3 西湖大学访问  西湖大学
WESTLAKE UNIVERSITY

技能

- 语言&框架: Python, C/C++, PyTorch, Matlab, Caffe
- 环境: Linux & macOS
- ♡: Coding & Researching, 🐞, 🦋 | 自动化所乒乓球比赛团体、单打冠军, 国科大团体冠军

其它

- 2015 三宝科技奖学金
- 2015 交通设计院奖学金
- 2013&2014 国家励志奖学金
- 2015 第十四届挑战杯智慧城市专项赛国际特等奖 (队长, 排位 1 / 807)
- 2014 美国大学生数学建模二等奖, 全国大学生数学建模省一等奖
- 2014 程序设计竞赛校三等奖, 短码竞赛一等奖 (预选赛均排名第一)
- 2013 交通科技竞赛校二等奖, 测绘实践技能竞赛校二等奖